

INCH-POUND

MIL-F-15733/4J
27 February 2003
SUPERSEDING
MIL-F-15733/4H
27 December 1988

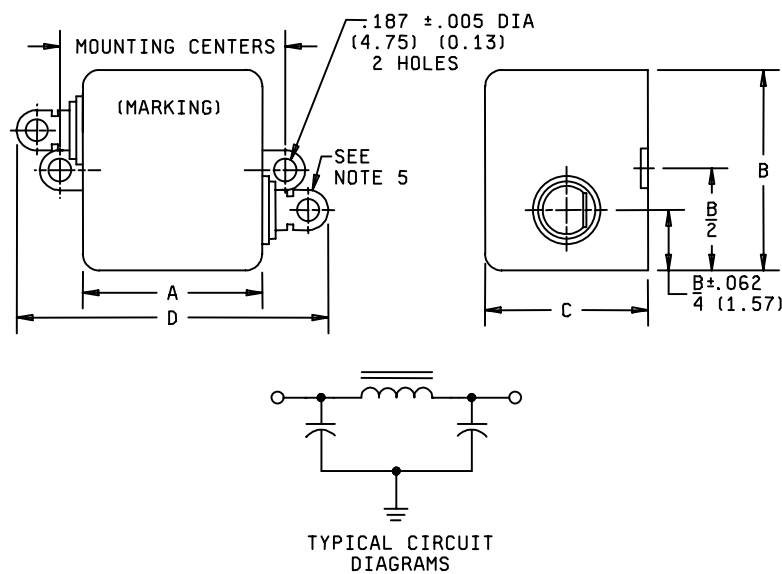
MILITARY SPECIFICATION SHEET

FILTERS, RADIO FREQUENCY INTERFERENCE,
STYLE FL53

Inactive for new design after 14 May 1980. For
new design use MIL-PRF-15733/73.

This specification is approved for use by all Departments
and Agencies of the Department of Defense.

The requirements for acquiring the product described herein
shall consist of this specification and MIL-PRF-15733.



| Dash number | Dimensions | | | | | | | Mounting center | |
|-------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|------------------|-------------------|
| | A | | B | | C | | D | | |
| | Min | Max | Min | Max | Min | Max | Max | Min | Max |
| 0001 | 1.688 (42.88) | 1.812 (46.02) | 1.188 (30.16) | 1.312 (33.32) | .813 (20.65) | .937 (23.80) | 3.406 (86.51) | 2.109 (53.57) | 2.141 (54.38) |
| 0002 | 1.938 (49.23) | 2.062 (52.37) | 1.938 (49.23) | 2.062 (52.37) | .813 (20.65) | .937 (23.80) | 3.594 (91.29) | 2.359 (59.92) | 2.391 (60.73) |
| 0003 | 1.938 (49.23) | 2.062 (52.37) | 1.938 (49.23) | 2.062 (52.37) | 1.063 (27.00) | 1.187 (30.15) | 3.594 (91.29) | 2.359 (59.92) | 2.391 (60.73) |
| 0004 | 1.938 (49.23) | 2.062 (52.37) | 1.938 (49.23) | 2.062 (52.37) | 1.438 (36.53) | 1.562 (39.67) | 3.594 (91.29) | 2.359 (59.92) | 2.391 (60.73) |
| 0005 | 2.438 (61.93) | 2.562 (65.07) | 1.938 (49.23) | 2.062 (52.37) | 1.438 (36.53) | 1.562 (39.67) | 4.094 (103.99) | 2.922 (74.22) | 2.954 (75.03) |
| 0006 | 2.438 (61.93) | 2.562 (65.07) | 1.938 (49.23) | 2.062 (52.37) | 1.688 (42.86) | 1.812 (46.02) | 4.094 (103.99) | 2.922 (74.22) | 2.954 (75.03) |
| 0007 | 2.438 (61.93) | 2.562 (65.07) | 1.938 (49.23) | 2.062 (52.37) | 2.063 (52.40) | 2.187 (55.55) | 4.094 (103.99) | 2.922 (74.22) | 2.954 (75.03) |
| 0008 | 3.190 (81.03) | 3.310 (84.07) | 2.188 (55.58) | 2.312 (58.72) | 2.063 (52.40) | 2.187 (55.55) | 4.969 (126.21) | 3.859 (98.02) | 3.891 (98.83) |
| 0009 | 3.126 (79.40) | 3.250 (82.55) | 2.188 (55.58) | 2.312 (58.72) | 2.063 (52.40) | 2.187 (55.55) | 4.906 (124.61) | 3.796 (96.42) | 3.828 (97.23) |
| 0010 | 3.252 (82.60) | 3.372 (85.65) | 2.188 (55.58) | 2.312 (58.72) | 2.063 (52.40) | 2.187 (55.55) | 5.031 (127.79) | 3.922 (99.62) | 3.954 (100.43) |

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are in parentheses.
3. Metric equivalents are given for general information only.
4. Circuit diagram is for information only.
5. Slot or hole opening acceptable for solder lugs.
6. Threaded stud terminals applicable to filters rated at 10 amperes and above (dash numbers 0004 through 0010).

FIGURE 1. Case dimensions and circuit configuration - Continued.

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Table I. Electrical characteristics.

| Dash number | Circuit diagram | Rated voltage | | Rated current (A) | Minimum insertion loss (dB) in accordance with MIL-STD-220 at +25°C 1/ | | | | | | |
|-------------|-----------------|---------------|------|----------------------|--|---------|---------|-------|--------|---------|-----------|
| | | V dc | V ac | | .15 MHz | .30 MHz | .60 MHz | 1 MHz | 10 MHz | 100 MHz | 1,000 MHz |
| 0001 | π | 400 | 125 | 1 | 50 | 60 | 60 | 60 | 60 | 60 | 60 |
| 0002 | π | 400 | 125 | 3 | 50 | 60 | 60 | 60 | 60 | 60 | 60 |
| 0003 | π | 400 | 125 | 5 | 50 | 60 | 60 | 60 | 60 | 60 | 60 |
| 0004 | π | 400 | 125 | 10 | 50 | 60 | 60 | 60 | 60 | 60 | 60 |
| 0005 | π | 400 | 125 | 15 | 40 | 50 | 60 | 60 | 60 | 60 | 60 |
| 0006 | π | 400 | 125 | 15 | 50 | 60 | 60 | 60 | 60 | 60 | 60 |
| 0007 | π | 400 | 125 | 30 | 40 | 50 | 60 | 60 | 60 | 60 | 60 |
| 0008 | π | 400 | 125 | 30 | 50 | 60 | 60 | 60 | 60 | 60 | 60 |
| 0009 | π | 400 | 125 | 55 | 40 | 50 | 60 | 60 | 60 | 60 | 60 |
| 0010 | π | 400 | 125 | 55 | 50 | 60 | 60 | 60 | 60 | 60 | 60 |

1/ Full load insertion loss measurements shall be made at frequencies between 150 kHz and 10 MHz .

Above 10 MHz, insertion loss measurements shall be made under no-load conditions.

REQUIREMENTS:

Dimensions and configuration: See figure 1.

Case finish: In accordance with MIL-PRF-15733. Pure tin finish is prohibited.

Operating temperature range: -65°C to +85°C.

Rated voltage: 125 volts ac; 400 volts dc.

Rated current: See table I.

Rated frequency: 0-400 Hz.

Insertion loss: In accordance with MIL-PRF-15733 and table I.

Seal: In accordance with MIL-PRF-15733.

Temperature rise: 25°C maximum for parts rated 10 amperes and less.
35°C maximum for parts rated greater than 10 amperes.

Insulation resistance: In accordance with MIL-PRF-15733 and the following:

Dash numbers 0001 through 0003 - 1000 megohms
Dash numbers 0004 through 0010 - 500 megohms

Maximum voltage drop: .5 volt.

Terminal strength: In accordance with MIL-PRF-15733 and the following:

Method 211, MIL-STD-202 - Test condition A: 9 pounds.

Method 211, MIL-STD-202 - Test condition B: 5 bends.

Method 211, MIL-STD-202 - Test condition E (threaded stud terminals only).

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Resistance to soldering heat (solder lug terminals only): In accordance with MIL-PRF-15733.

Salt atmosphere (corrosion): In accordance with MIL-PRF-15733 and Method 101, MIL-STD-202; test condition A.

Shock (specified pulse): In accordance with MIL-PRF-15733 and Method 213, MIL-STD-202; test condition I.

Vibration, low frequency: In accordance with MIL-PRF-15733.

Part or Identifying Number (PIN): M15733/04-(dash number from figure 1 and table I).

Changes from previous issue. Marginal notations are not used in this revision to identify changes with respect to the previous issue due to the extensiveness of the changes.

Custodians:
Army - CR
Navy - EC
Air Force - 11
DLA - CC

Preparing activity:
DLA - CC

(Project 5915-0412-03)

Review activities:
Army - AT, AV, MI
Navy - AS, CG, MC, OS, SH
Air Force - 19, 99